

# DRAWINGS AND PERFORMANCE DATA

FIG. 1 Wavelet Tiling of an N-Point Digital t-f Space

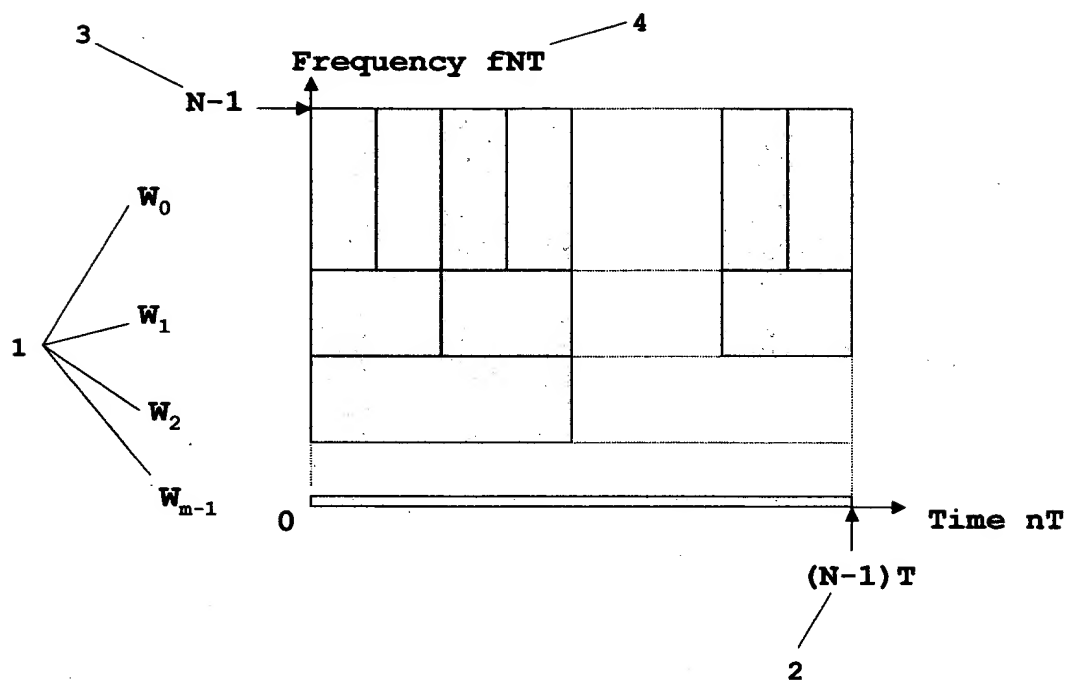


FIG. 2 Wavelet Iterated Filter Bank for Tiling t-f  
Space in FIG. 1

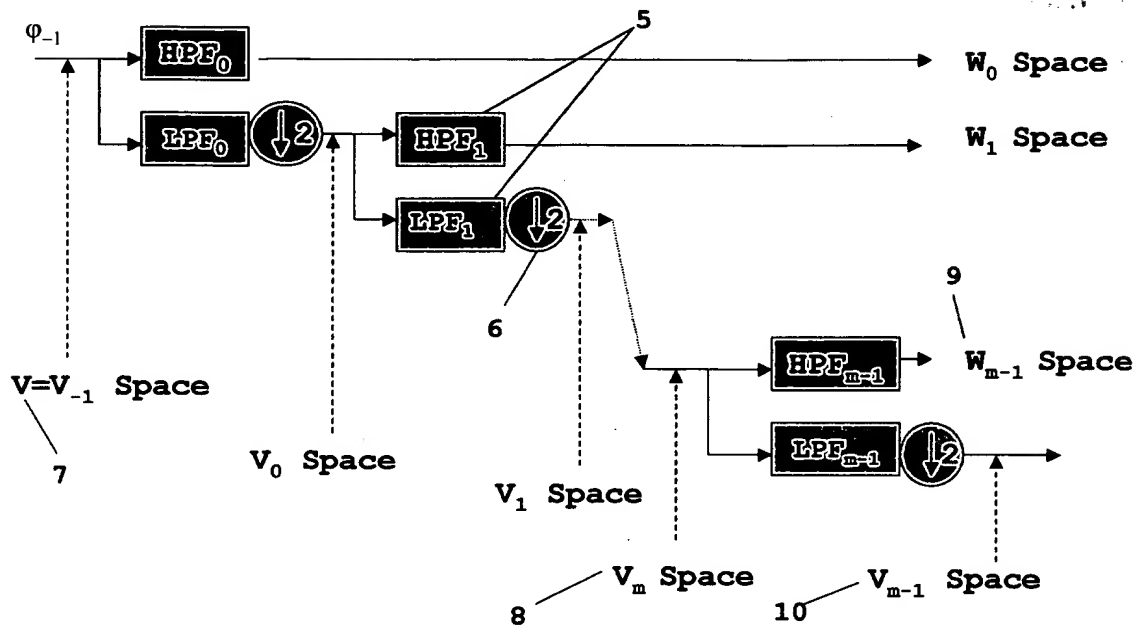
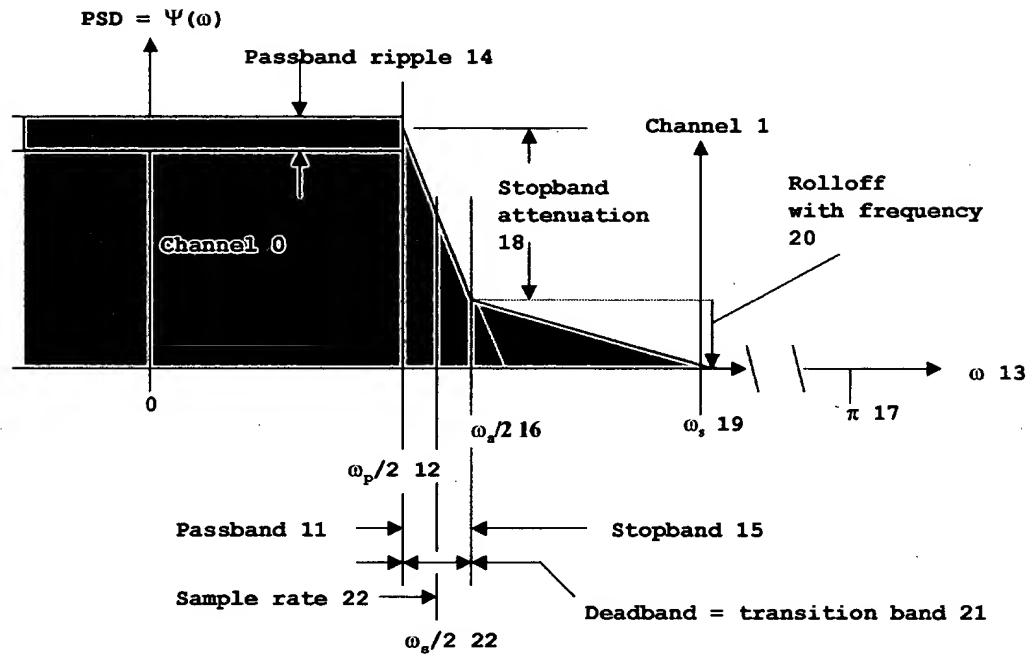
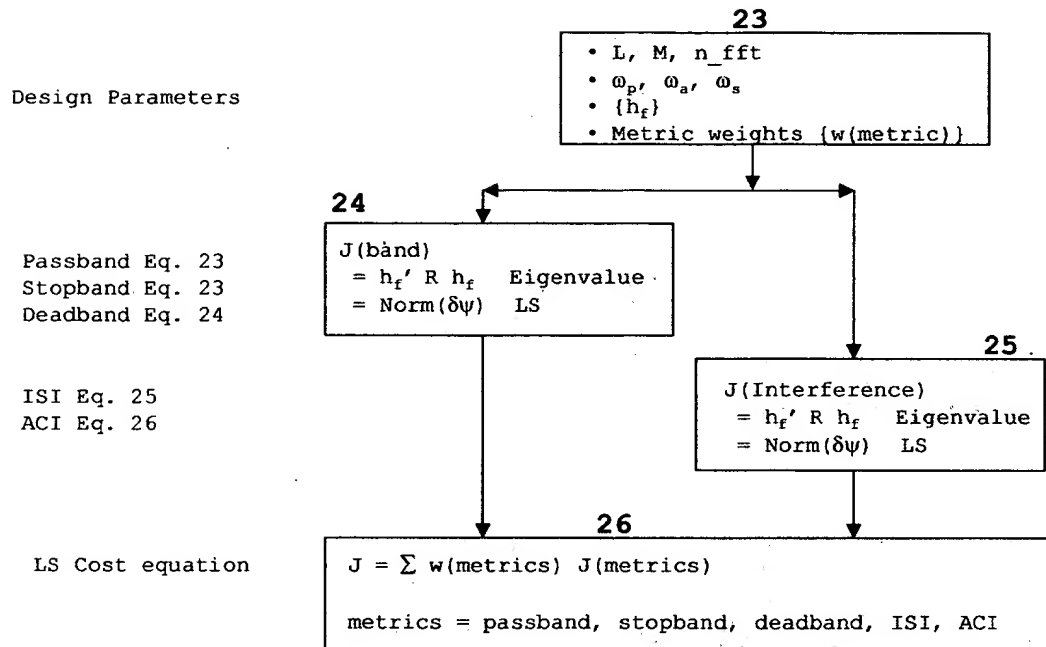


FIG. 3 PSD Requirements for Communications



**FIG. 4 LS Metrics and Cost Function**



**FIG. 5 LS Recursive Solution Algorithm**

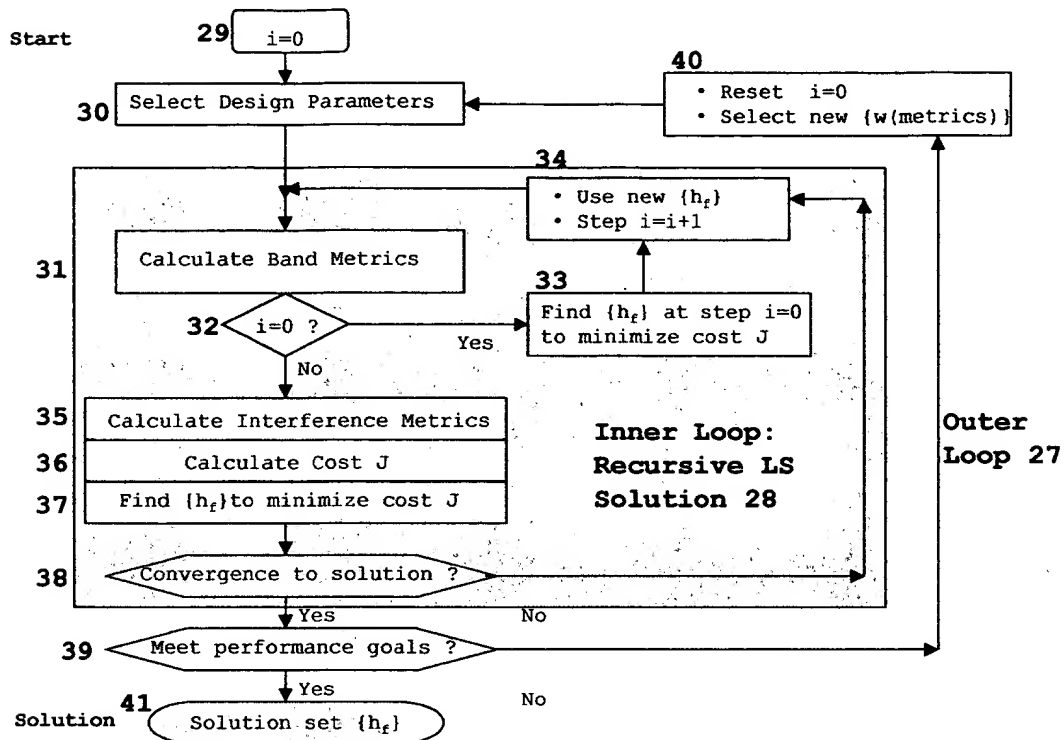


FIG. 6 PSD for New Waveform and Square-Root Raised-Cosine

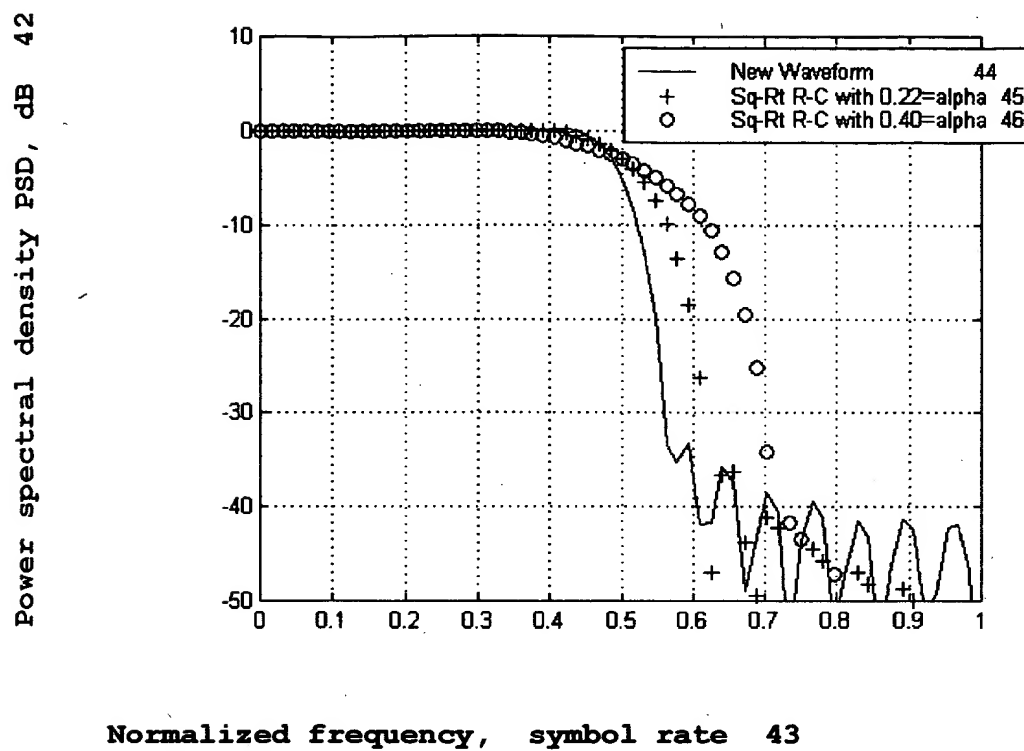
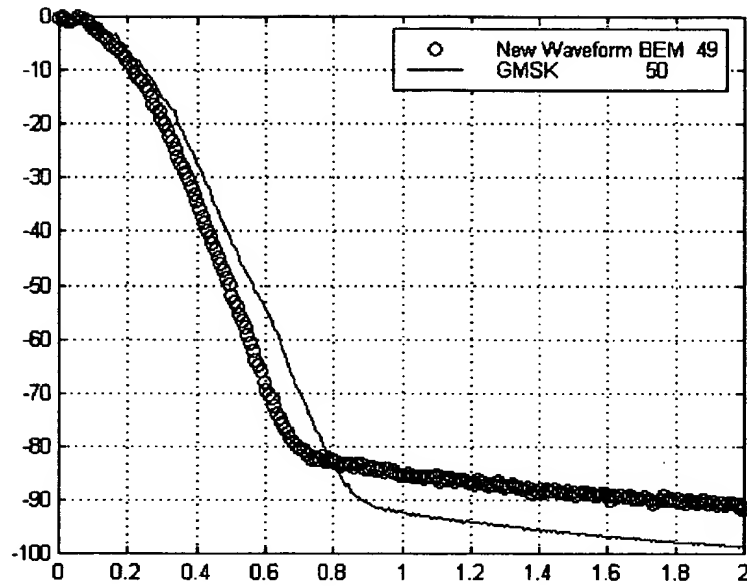


FIG. 7 PSD for New Waveform BEM and GMSK

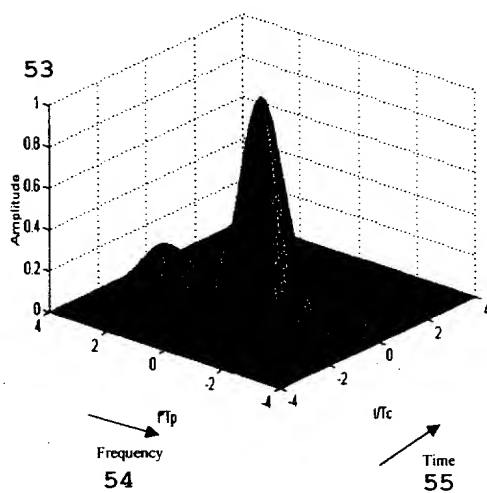
Power spectral density PSD, dB 47



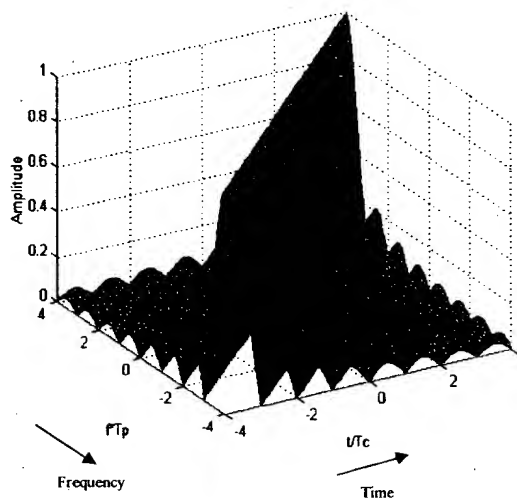
Normalized frequency, bit rate 48

**FIG. 8 Radar Ambiguity Functions of New Waveform and Unweighted Chirp Waveform**

New Wavelet Ambiguity Function 51



Unweighted Chirp Ambiguity Function 52



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